

ALGEBRA I End of Course STUDY GUIDE

Slope:

$y = mx + b$
 m is the slope
 b is the y-axis intercept

Find Slope given a table:

x	y
0	-4
2	-8
-1	0

(the change in "y" over the change in "x")

$$\frac{\Delta y}{\Delta x} = \frac{-8}{-3} = -\frac{8}{3}$$

x	y
2	4
10	16

Find the slope given two points
 (x₁, y₁) (x₂, y₂)

$$\frac{\Delta y}{\Delta x} = \frac{12}{8} = \frac{3}{2}$$

Find Slope given a graph:

Method 1:

1. Choose any two points.
2. Create table with points.
3. Find Δy and Δx .

Method 2:

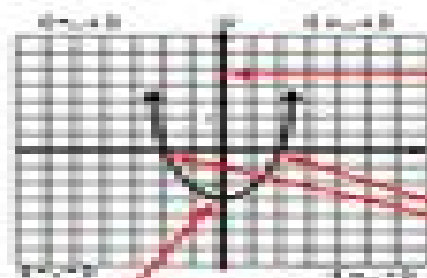


Linear Functions:

Possible representations

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Quadratics: Parent function $y = x^2$



Line of Symmetry:
 y -axis (solid line)

Find a -intercepts:
 graphs, arrows,
 reflections,
 where $y = 0$ (x^2)

$-a$ and $+a$
 (roots, zeros)

Vertex: (0, 0)
 Maximum or Minimum point
 Axis: Minimum/Maximum approach

$$x^2 + 3x + 40 = 0$$

$$0 = 3(4) - 40$$

substitute into

$$0 = 12 - 40$$

Independent:

x

Dependent:

$f(x)$

Domain

$2x - 4$

$8x$

$3x^2$

Range

$y = 0$

$0 < y$

$y \geq 0$

$$y = 100x - 4$$

$$x = 100$$

$$y = 100$$

Number of hours

Total cost \$1

Number of hours worked

Amount of money that earned

Solve for "y"

$$3x + 4y = 24$$

$$-3x$$

$$4y = -3x + 24$$

$$4y = -3x + 24$$

$$-4$$

$$y = -\frac{3}{4}x + 6$$

Steps:

1. Add a positive or negative "a" Opposite sign of a .
2. Cancel same pairs (this being done carefully).
3. Divide by the number in front of y .
4. Done!

Exponent Basics

$$x = x^1$$

$$x^0 = \frac{x}{x} = 1$$

$$x^2 = x$$

Add Exponents & multiply numbers

$$x^1 \cdot x^1 = x^2$$

$$a^3 \cdot a^3 = 64 \cdot 64 = 4096$$

$$2a \cdot 2a^2 = 4a^3$$

$$x^2 \cdot x^2 = x^4$$

$$(3 \cdot 4x^2)^2 = 3^2 \cdot 4^2 \cdot x^4 = 144x^4$$

$$4 \cdot x^2 \cdot y^2 = 4x^2y^2$$

$$3m^2 \cdot 4n^2 = 12m^2n^2$$

$$x^2 = x^2 \cdot x^0 = x^2$$

$$\frac{27x^3y^4}{3x^2y^2} = 9xy^2$$

$$\frac{(-6a^2b^3)(2a^3b^2)}{-18a^2b^2c^2} = \frac{-12a^5b^5}{-18a^2b^2c^2} = \frac{2a^3b^3}{3c^2}$$

Eoc Algebra Study Guide

RJ Alexander

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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